

## Amendment To The Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) A method for the computer aided monitoring of process parameters of a manufacturing process of a physical object comprising:

storing an unspecific value for ~~[[the]]~~ a hierarchical level if no specific value is stored in ~~[[the]]~~ an object data record ~~for~~ corresponding to the hierarchical level;

storing process data for at least one process parameter for ~~the~~ a corresponding hierarchical object data record;

comparing the stored process data with ~~[[the]]~~ a stored limit ~~values~~ value for the corresponding hierarchical object data record having a specific value; and

iteratively processing the hierarchical levels of the object data record ~~[[of]]~~ having a specific value with the stored process data ~~being iteratively processed according to a predeterminable hierarchy in such a way that, starting from a highest hierarchical level[[,]]~~ to the next-lower hierarchical level is processed, wherein the object data record having a specific value has object data that identifies a logistical level of the physical object, the logistical level assigned to the hierarchical level having a limit value for at least one process parameter being stored and corresponding to the hierarchical object data record.

2. (Currently amended) The method as ~~claimed in~~ of claim 1, in which wherein the physical object is a wafer.

3. (Currently amended) The method as ~~claimed in~~ of claim 1, in which wherein the hierarchical levels correspond to logistical levels of the manufacturing process.

4. (Currently amended) The method as ~~claimed in one of claims 1 to 3 of claim 1, in which~~ wherein an unspecific limit ~~values are~~ value is stored for a process parameters parameter by using unspecific object data.

5. (Currently amended) The method ~~as claimed in one of claims 1 to 4 of claim 1, in which wherein the values~~ a value of the at least one process parameter ~~are~~ is measured.

6. (Currently amended) The method ~~as claimed in one of claims 1 to 5 of claim 1, in which wherein~~ the hierarchical levels are sorted according to a predeterminable sorting criterion.

7. (Currently amended) A device for the computer-aided monitoring of process parameters of a manufacturing process of a physical object, said device comprising:

a processor, ~~which is set up in such a way that~~ is configured to carry out the following method ~~steps can be carried out:~~

storing an unspecific value for ~~the~~ a hierarchical level if no specific value is stored in the an object data record ~~for~~ corresponding to the hierarchical level;

storing process data for at least one process parameter for a corresponding hierarchical object data record;

comparing process data stored for the corresponding object data records record with ~~the~~ a stored limit values value for the corresponding object data ~~records~~ record;

iteratively processing the hierarchical levels level of the object data record of the stored process data according to a predeterminable hierarchy ~~in comparison in such a way that, starting~~ from a highest hierachical level ~~[[,]]~~ to the a next-lower hierarchical level is processed, and repeating the ~~steps of comparing and the~~ iteratively processing until the processing has reached the a lowest hierarchical level ~~and the unspecific value of a hierarchical level of the object record being used in the processing if the value of the hierarchical level is not stored as a specific value, wherein the object data record has object data that identifies a logistical level of the physical object, the logistical level assigned to the hierarchical level with a limit value for at least one process parameter being stored and respectively assigned to a hierarchical object data record.~~

8. (Currently amended) A computer-readable storage medium, in which ~~that stores~~ a program for monitoring ~~[[of]]~~ a manufacturing process of a physical object ~~is stored~~, the computer-readable storage medium which ~~program has configured to execute~~ the following method steps ~~when it is run by a processor~~:

storing an unspecific value for the a hierarchical level if no specific value is stored in the an object data record for the hierarchical level;

storing process data for at least one process parameter for a corresponding hierarchical object data record;

comparing process data stored for the corresponding object data records record with the a stored limit values value for the corresponding object data ~~records~~ record;

iteratively processing the hierarchical levels level of the object data record of the stored process data according to a predeterminable hierarchy in ~~comparison in such a way that, starting from a highest hierachical level[[,]] to~~ the a next-lower hierarchical level ~~is processed~~, and repeating the steps of comparing and the iteratively processing until the processing has reached the a lowest hierarchical level and ~~the unspecific value of a hierarchical level of the object record being used in the processing if the value of the hierarchical level is not stored as a specific value, wherein the object data record has~~ object data that identifies a logistical level of the physical object, the logistical level assigned to the hierarchical level with a limit value for at least one process parameter being stored and respectively assigned to a hierarchical object data record.

9. (Currently Amended) A computer program element for the monitoring of a manufacturing process of a physical object, object data which identify the physical object being assigned to various hierarchical levels, object data of various hierarchical levels being grouped to form hierarchical object data records, limit values for at least one process parameter being stored and respectively assigned to a hierarchical object data record, process data of the at least one process parameter, measured during the manufacture of the physical ~~objects~~ object, being stored and the hierarchical object data records corresponding to the object data being determined for the physical

objects object manufactured, which the element has configuring a processor to perform the following method ~~steps when it is run by a processor~~:

storing an unspecific value for the hierarchical level if no specific value is stored in the object data record for the hierarchical level;

storing process data for at least one process parameter for a corresponding hierarchical object data record;

comparing the process data stored for the corresponding object data records with the stored limit values for the corresponding object data records;

iteratively processing the hierarchical levels level of the object data record of the stored process data according to a predeterminable hierarchy in ~~comparison in such a way that, starting from a highest hierachical level[[,]] to the a next-lower hierarchical level is processed, and repeating the steps of comparing and the iteratively processing until the processing has reached the a lowest hierarchical level and the unspecific value of a hierarchical level of the object record being used in the processing if the value of the hierarchical level is not stored as a specific value, wherein the object data record has~~ object data that identifies a logistical level of the physical object, the logistical level assigned to the hierarchical level with a limit value for at least one process parameter being stored and respectively assigned to a hierarchical object data record.

10. (New) The method of claim 1, wherein the unspecific value of the hierarchical level of the object record is used in the iteratively processing if the value of the hierarchical level is not stored as a specific value.

11. (New) The device of claim 7, wherein the unspecific value of the hierarchical level of the object record is used in the iteratively processing if the value of the hierarchical level is not stored as a specific value.

12. (New) The computer-readable storage medium of claim 8, wherein the unspecific value of the hierarchical level of the object record is used in the iteratively processing if the value of the hierarchical level is not stored as a specific value.

13. (New) The computer program element of claim 9, wherein the unspecific value of the hierarchical level of the object record is used in the iteratively processing if the value of the hierarchical level is not stored as a specific value.